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1  Storage optimization for large-scale distributed stream-processing systems
   Kirsten Hildrum, Fred Douglis, Joel L. Wolf, Philip S. Yu, Lisa Fleischer, Akshay Katta
   February 2008 ACM Transactions on Storage (TOS),  Volume 3 Issue 4
   Publisher: ACM
   Full text available: 🗋 Pdf (980.49 KB)      Additional Information: full citation, abstract, references, index terms

   Bibliometrics: Downloads (6 Weeks): 128,  Downloads (12 Months): 428,  Citation Count: 0

        We consider storage in an extremely large-scale distributed computer system designed for strea
        processing applications. In such systems, both incoming data and intermediate results may nee
        stored to enable analyses at unknown future times. The ...

        Keywords: Storage management, file assignment problem, load balancing, optimization, strear
        systems, theory

2  A mapping mechanism to support bitmap index and other auxiliary structures on tables sto
   primary B⁺-trees
   Eugene Inseok Chong, Jagannathan Srinivasan, Souripriya Das, Chuck Freiwald, Aravind Yalamancl
   Jagannath, Anh-Tuan Tran, Ramkumar Krishnan, Richard Jiang
   June 2003   ACM SIGMOD Record,  Volume 32 Issue 2
   Publisher: ACM
   Full text available: 🗋 Pdf (198.55 KB)      Additional Information: full citation, abstract, references

   Bibliometrics: Downloads (6 Weeks): 7,  Downloads (12 Months): 58,  Citation Count: 1

        Any auxiliary structure, such as a bitmap or a B⁺-tree index, that refers to rows of a table storec
        primary B⁺-tree (e.g., tables with clustered index in Microsoft SQL Server, or index-organized ta
        Oracle) ...

3  Satisfiability-based framework for enabling side-channel attacks on cryptographic software
   Nachiketh R. Potlapally, Anand Raghunathan, Srivaths Ravi, Niraj K. Jha, Ruby B. Lee
   March 2006  DATE '06: Proceedings of the conference on Design, automation and test in Europe: D
        forum
   Publisher: European Design and Automation Association
   Full text available: 🗋 Pdf (161.25 KB)      Additional Information: full citation, abstract, references

   Bibliometrics: Downloads (6 Weeks): 2,  Downloads (12 Months): 36,  Citation Count: 1

        Many electronic systems contain implementations of cryptographic algorithms in order to provid
        It is well known that cryptographic algorithms, irrespective of their theoretical strength, can be
        through weaknesses in their implementation. ...

4  A mapping mechanism to support bitmap index and other auxiliary structures on tables sto
   primary B⁺-trees

Eugene Inseok Chong, Jagannathan Srinivasan, Souripriya Das, Chuck Freiwald, Aravind Yalamancl
Jagannath, Anh-Tuan Tran, Ramkumar Krishnan, Richard Jiang

November 2002 CIKM '02: Proceedings of the eleventh international conference on Information anc
                knowledge management

Publisher: ACM

Full text available: 📄 Pdf (63.19 KB)        Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 3,  Downloads (12 Months): 21,  Citation Count: 0

Any auxiliary structure, such as a bitmap or a B⁺-tree index, that refers to rows of a table storec
primary B⁺-tree (e.g., *tables with clustered index* in Microsoft SQL Server, or *index-organized ta*
Oracle) ...

Keywords: bitmap indexes, mapping mechanism, primary B⁺-trees


5  Proceedings of the 2nd workshop on Workflows in support of large-scale science

Ewa Deelman, Ian Taylor
June 2007   proceeding
Publisher: ACM

Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): n/a,  Downloads (12 Months): n/a,  Citation Count: 0

Welcome to the 2nd Workshop on Workflows in Support of Large-Scale Science (WORKS'07). Sir
WORKS workshop, there has been a growing interest in the workflow technologies and workflow
considered a key technology ...


6  Rosette: An object-oriented concurrent systems architecture

C. Tomlinson, W. Kim, M. Scheevel, V. Singh, B. Will, G. Agha
September 1988 Proceedings of the 1988 ACM SIGPLAN workshop on Object-based concurrent progi
Publisher: ACM

Full text available: 📄 Pdf (288.03 KB)        Additional Information: full citation, abstract, references, cited by, index te

Bibliometrics: Downloads (6 Weeks): 17,  Downloads (12 Months): 34,  Citation Count: 8

A number of concurrent computers have been designed, such as [Ametek 1988] and [NCUBE 19
Taking advantage of concurrency on these computers will require new languages, operating sysi
environments to support the programming, monitoring and ...


7  Rosette: An object-oriented concurrent systems architecture

C. Tomlinson, W. Kim, M. Scheevel, V. Singh, B. Will, G. Agha
April 1989   ACM SIGPLAN Notices,  Volume 24 Issue 4
Publisher: ACM

Full text available: 📄 Pdf (288.03 KB)        Additional Information: full citation, abstract, references, cited by, index te

Bibliometrics: Downloads (6 Weeks): 17,  Downloads (12 Months): 34,  Citation Count: 8

A number of concurrent computers have been designed, such as [Ametek 1988] and [NCUBE 19
Taking advantage of concurrency on these computers will require new languages, operating sysi
environments to support the programming, monitoring and ...


8  Compilation and delayed evaluation in APL

Leo J. Guibas, Douglas K. Wyatt
January 1978 POPL '78: Proceedings of the 5th ACM SIGACT-SIGPLAN symposium on Principles of
                programming languages

Publisher: ACM

Full text available: Pdf (944.71 KB)     Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 20, Citation Count: 41

Most existing APL implementations are interpretive in nature, that is, each time an APL stateme
encountered it is executed by a body of code that is perfectly general, i.e. capable of evaluating
expression, and is in no way tailored ...

9 Dense multiway trees
K. Culik, II, Th. Ottmann, D. Wood
September 1981 ACM Transactions on Database Systems (TODS), Volume 6 Issue 3
Publisher: ACM

Full text available: Pdf (1.55 MB)     Additional Information: full citation, abstract, references, cited by, index te

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 29, Citation Count: 4

B-trees of order m are a "balanced" class of m-ary trees, which have applications in the areas o
organization. In fact, they have been the only choice when balanced multiway trees are required
Although ...

Keywords: B-trees, balanced trees, dense trees, multiway trees, search trees, storage utilizatic

10 An estimation of the relative efficiency of two internal sorting methods
H. Nagler
November 1960 Communications of the ACM, Volume 3 Issue 11
Publisher: ACM

Full text available: Pdf (444.12 KB)     Additional Information: full citation, abstract, cited by

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 18, Citation Count: 2

This report concerns the IBM 705, models I and II. It is a study of the machine time required by
internal sorting methods, the conventional two-way merge, and a form of the binary search, wh
to D. Mordy, of the IBM Corporation. In particular, ...

11 Effective data mining: a data warehouse-backboned architecture
Khalil M. Ahmed, Nagwa M. El-Makky, Yousry Taha
November 1998 CASCON '98: Proceedings of the 1998 conference of the Centre for Advanced Stud
            Collaborative research
Publisher: IBM Press

Full text available: Pdf (292.82 KB)     Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 73, Citation Count: 0

An effective Data Mining (DM) system for mining multiple-level knowledge from Data Warehous
and flat files of raw data is proposed. The *DW* represents the backbone of the proposed architec
Intermediate, as well as final results ...

12 External memory algorithms and data structures: dealing with massive data
Jeffrey Scott Vitter
June 2001 ACM Computing Surveys (CSUR), Volume 33 Issue 2
Publisher: ACM

Full text available: Pdf (828.46 KB)     Additional Information: full citation, abstract, references, cited by, index te

Bibliometrics: Downloads (6 Weeks): 132, Downloads (12 Months): 911, Citation Count: 77

Data sets in large applications are often too massive to fit completely inside the computers inter
memory. The resulting input/output communication (or I/O) between fast internal memory and

external memory (such as disks) can be a major performance ...

Keywords: B-tree, I/O, batched, block, disk, dynamic, extendible hashing, external memory, h memory, multidimensional access methods, multilevel memory, online, out-of-core, secondary s sorting

13  Computing curricula 2001
CORPORATE The Joint Task Force on Computing Curricula
September 2001 Journal on Educational Resources in Computing (JERIC),   Volume 1 Issue 3es
Publisher: ACM
Full text available: Html (2.78 KB),  Pdf (613.63 KB) Additional Information: full citation, references, cited by, index

Bibliometrics: Downloads (6 Weeks): 131,  Downloads (12 Months): 1547,  Citation Count: 23

14  GPGPU: general purpose computation on graphics hardware
David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aa
August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes
Publisher: ACM
Full text available: Pdf (63.03 MB)         Additional Information: full citation, abstract, cited by

Bibliometrics: Downloads (6 Weeks): 171,  Downloads (12 Months): 1419,  Citation Count: 3

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely and flexible processor. The latest graphics architectures provide tremendous memory bandwidth computational horsepower, with fully programmable vertex ...

15  Bernard Galler interview: January 18-19, 2006
Atsushi Akera
January 2006 ACM Oral History interviews
Publisher: ACM
Full text available: Pdf (832.89 KB)         Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): 32,  Downloads (12 Months): 122,  Citation Count: 0

16  Real-time shading
Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi
August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes
Publisher: ACM
Full text available: Pdf (7.39 MB)         Additional Information: full citation, abstract, cited by

Bibliometrics: Downloads (6 Weeks): 60,  Downloads (12 Months): 702,  Citation Count: 1

Real-time procedural shading was once seen as a distant dream. When the first version of this c offered four years ago, real-time shading was possible, but only with one-of-a-kind hardware or combining the effects of tens to hundreds of rendering ...

17  A history of Haskell: being lazy with class
Paul Hudak, John Hughes, Simon Peyton Jones, Philip Wadler
June 2007   HOPL III: Proceedings of the third ACM SIGPLAN conference on History of programmii
                languages
Publisher: ACM
Full text available: Pdf (1.15 MB)         Additional Information: full citation, appendices and supplements, abstrac
                                                                        index terms

Bibliometrics:  Downloads (6 Weeks): 75,  Downloads (12 Months): 1475,  Citation Count: 0

This paper describes the history of Haskell, including its genesis and principles, technical contrib implementations and tools, and applications and impact.

18  Collision detection and proximity queries

Sunil Hadap, Dave Eberle, Pascal Volino, Ming C. Lin, Stephane Redon, Christer Ericson
August 2004  SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes
Publisher: ACM
Full text available: Pdf (11.22 MB)          Additional Information: full citation, abstract

Bibliometrics:  Downloads (6 Weeks): 51,  Downloads (12 Months): 663,  Citation Count: 2

This course will primarily cover widely accepted and proved methodologies in collision detection. addition more advanced or recent topics such as continuous collision detection, ADFs, and using hardware will be introduced. When appropriate ...

19  Communications of the ACM: Volume 51 Issue 9

September 2008  issue   Volume 51 Issue 9
Publisher: ACM
Full text available: Digital Edition , Pdf (8.68 MB) Additional Information: full citation

Bibliometrics:  Downloads (6 Weeks): 13658,  Downloads (12 Months): 13658,  Citation Count: 0

20  Communications of the ACM: Volume 51 Issue 7

July 2008   issue   Volume 51 Issue 7
Publisher: ACM
Full text available: Digital Edition , Pdf (6.54 MB) Additional Information: full citation

Bibliometrics:  Downloads (6 Weeks): 3973,  Downloads (12 Months): 4442,  Citation Count: 0

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